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File: PGPB

Aug 12, 2004

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PGPUB-DOCUMENT-NUMBER: 20040157203

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040157203 A1

TITLE: Equation editor

PUBLICATION-DATE: August 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dunk, Michael	Middleton	WI	US	
Crist, Mary	Marathon	FL	US	

US-CL-CURRENT: 434/350

ABSTRACT:

An on-line teaching and learning system with rapid change-by-change or real time reinforcement signals for students and simultaneous monitoring by the teacher of the actual responses as well as their correctness is disclosed. The system may include at least one teacher computer, a plurality of student computers operably connected to the at least one teacher computer by a communications network. The system may be used in a classroom setting or in a distance-learning environment.

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 Terms used [browser](#) [MathML](#) [XML](#) [calculation](#)

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1 Web content accessibility guidelines 1.0

Wendy Chisholm, Gregg Vanderheiden, Ian Jacobs

 July 2001 **interactions**, Volume 8 Issue 4

 Full text available: [pdf\(471.98 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 Tracing the roots of markup languages

Rishi Toshniwal, Dharma P. Agrawal

 May 2004 **Communications of the ACM**, Volume 47 Issue 5

 Full text available: [pdf\(191.70 KB\)](#)
[html\(17.95 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Markup languages provide efficient ways of storing information on the Web and make the retrieval process easier. Indeed, its simplicity and added intelligence to the document makes it useful for messaging between clients and server.

3 Web application design: Building adaptable and reusable XML applications with model transformations

Ivan Kurtev, Klaas van den Berg

 May 2005 **Proceedings of the 14th international conference on World Wide Web**

 Full text available: [pdf\(194.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We present an approach in which the semantics of an XML language is defined by means of a transformation from an XML document model (an XML schema) to an application specific model. The application specific model implements the intended behavior of documents written in the language. A transformation is specified in a model transformation language used in the Model Driven Architecture (MDA) approach for software development. Our approach provides a better separation of three concerns found in XML ...

Keywords: MDA, XML, XML processing, model transformations, transformation language

4 XML to be, VRML to see

B. Arun, A. D. Ganguly

 November 1999 **Crossroads**, Volume 6 Issue 2

 Full text available: [html\(23.18 KB\)](#) Additional Information: [full citation](#), [index terms](#)


5 SIGda '96, workshop: how do we expedite the commercial use of Ada?

Robert C. Leif

March 1999 **ACM SIGAda Ada Letters**, Volume XIX Issue 1

Full text available: [!\[\]\(dfbd6b3763a6d1d9afaa974f64e2e4b5_img.jpg\) pdf\(858.93 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)



6 XML: the future of the Web

John B. Bedunah

November 1999 **Crossroads**, Volume 6 Issue 2

Full text available: [!\[\]\(05be7c7a8995decd503647c99211f7c2_img.jpg\) html\(36.32 KB\)](#) Additional Information: [full citation](#), [index terms](#)



7 Object-Z web environment and projections to UML

Jing Sun, Jin Song Dong, Jing Liu, Hai Wang

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available: [!\[\]\(626ce8ac21792b9405bfddfea8e0c96a_img.jpg\) pdf\(267.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: UML, XML/XSL/XMI, object-Z

8 Extracting mathematical expressions from postscript documents

Michael Yang, Richard Fateman

July 2004 **Proceedings of the 2004 international symposium on Symbolic and algebraic computation**

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Keywords: digital library, document image analysis, mathematics, optical character recognition, postscript documents



9 Software components using symbolic computation for problem solving environments

Y. N. Lakshman, Bruce Char, Jeremy Johnson

August 1998 **Proceedings of the 1998 international symposium on Symbolic and algebraic computation**

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10 ESF: an automatically generated encyclopedia of special functions

Ludovic Meunier, Bruno Salvy

August 2003 **Proceedings of the 2003 international symposium on Symbolic and algebraic computation**

Full text available: [!\[\]\(3d20681358fc97885ad401fe189f8c42_img.jpg\) pdf\(274.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We present our on-going work on the automatic generation of an encyclopedia of special functions on the web, called *The Encyclopedia of Special Functions* (ESF) footnoteurl`http://algo.inria.fr/ef`. All mathematical formulae in the ESF are computed, typeset and displayed without any human intervention. This is achieved by exploiting a

collection of computer algebra algorithms in a systematic way, on top of a specially designed data structure for a class of special functions.

Keywords: D-finite functions, special functions

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IEEE CNF IEEE Conference Proceeding

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1. An SVG browser for XML languages

Sagar, M.S.;
Theory and Practice of Computer Graphics, 2003. Proceedings
3-5 June 2003 Page(s):42 - 48

[AbstractPlus](#) | Full Text: [PDF\(494 KB\)](#) IEEE CNF

2. Web-based mathematics education: MeML design and implementation

Wang, P.S.; Yi Zhou; Xiao Zou;
Information Technology: Coding and Computing, 2004. Proceedings. ITCC 2004. International Conference on
Volume 1, 5-7 April 2004 Page(s):169 - 175 Vol.1

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